



MR-1

HIGHLY MOBILE AIR SURVEILLANCE
METER-WAVE RADAR



UKROBORONPROM
Ukrainian Defence Industry



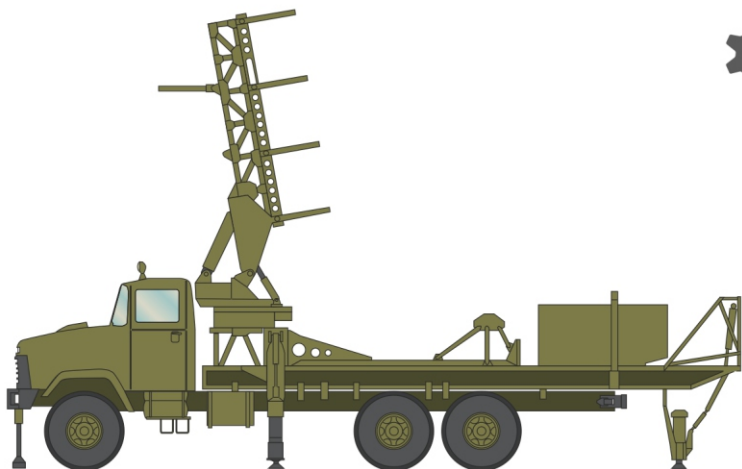
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HIGHLY MOBILE AIR SURVEILLANCE METER-WAVE RADAR

Modern high-mobility VHF-band radar with digital phased antenna array is designed to detect all types of existing and advanced air targets, including UAVs and Stealthy aircrafts.

MAIN SPECIFICATIONS



RADAR SYSTEM PROVIDES:

- detecting, tracking and measuring azimuth, range, radial and ground speed of all type air targets including stealthy ones under noise-free conditions, under natural interference and artificial active and passive jamming as well as under their combined effect;
- jammer direction finding;
- data output to off-line display facilities and interaction with command posts of regional and national ACP.

RADAR OPERATION LIMITS:

■ in range	1,5...400 km
■ in azimuth	360°
■ in elevation	0...40°/70°
■ in altitude	40 km

TARGET DETECTION RANGE, RCS=3-5 m² AT P=0.8 F=10⁻⁶, km:

at flight altitude 100 m	27 km
at flight altitude 1000...5000 m	260 km
at flight altitude 10...30	300-360 km
Clutter suppression	≥ 50 dB
Deployment/stowage time	5/3 min



Frequency
range
VHF



Scanning
period
10 or 20 s



Track
throughput
250



Transport
units
1 (2)



Consumption
power
< 15 kW



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